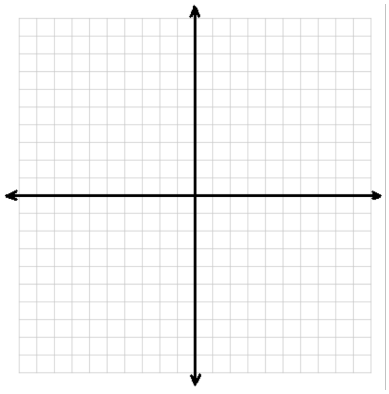
Geometry - G.GPE.B Name: _____

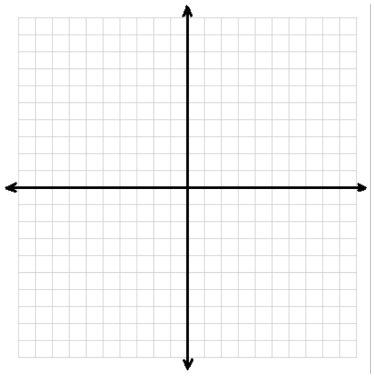
Unit5 Test Review - Coordinate Geometry Date: _____ Period: _____

Graph the following equations.

1. y = 2x – 7



2. 5x + 3y = 18



2. Find the slope of the line between the given points.

a) (3, 4) and (9, 6)

b) (-2, 5) and (2, -4)

c) (-1, 6) and (10, -5)

Write the equation for the line given the following information:

3. Slope of ½ through (-2, 3)

4. through (-3, -4) and (1, -8)

5. through (3, 5) and (0, 7).

6. parallel to $y=-2x+9$ through (-3, 5)

7. perpendicular to $y=-2x+9$ through (-3, 5)

8. parallel to y = 4x – 5 through the point (-2, 3)

9. perpendicular to $y = \frac{1}{3}x + 5$ through the point (-6, 1)

10. Are the following lines parallel, perpendicular, or neither? $7x - 1y = 14$
$7x + 1y = 14$

11. Find the midpoint and distance of AB if A(12, -7) and B(-6, 15)
Midpoint: Distance:

12. Find the midpoint of the segment with endpoints (-7, 20) and (15, -10). Label the midpoint M. If N has coordinates (6,8), find the slope of the line MN.

13. One endpoint of a segment is (12, -8). The midpoint is (3, 18). Find the coordinates of the other endpoint.

14. Find the distance between the points.
a) (12, 6) and (-8, 18) b) (6, -2) and (2, 4)

15.

Find the distance between J and L. _____

Find the length of $\overline{LM}$. _____

Prove that $JK = KL$.

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